digital™ MATERIAL SAFETY DATA SHEET

DISK DRIVE CLEANING FLUID **Page 1 of 2** **A-SP-ELMD009-AA-0 Rev A.**

SECTION 1 - PREPARATION/PRODUCT INFORMATION

Manufacturer's Name: Digital Equipment Corporation Maynard, MA USA

Non-Emergency Phone Number: (508) 496-9242

Emergency Phone Numbers: 800-228-5635 ext.123
[+1] 612-221-3999 ext.123

Preparation Date: March 4, 1992

Supersedes: April 2, 1990

Product Name: Disk Drive Cleaning Fluid
Use: Disk Drive Cleaner

Part Number(s): RX02K-HC, RX50K-HC

SECTION 2 - INGREDIENTS

HAZARDOUS INGREDIENTS	CAS	%	ACGIH TLV	OSHA PEL	CARCINOGEN LIST IARC	CARCINOGEN LIST NTP	CARCINOGEN LIST OSHA	SARA 313
Isopropyl Alcohol	67-63-0	30	400 ppm	400 ppm	NO	NO	NO	NO
1,1,2-Trichloro-1,2,2-Trifluoro-Ethane	76-13-1	70	1000 ppm	1000 ppm	NO	NO	NO	NO

OTHER INGREDIENTS

None

The chemicals contained in this product are on the US TSCA inventory.

SECTION 3 - PHYSICAL AND CHEMICAL DATA

Boiling Point - 49°C (120°F)
Vapor Pressure - 20 mmHg @ 25°C (77°F)
Vapor Density - 2.2 @ 20°C (68°F)
Appearance - Clear colorless liquid
Freezing Point - -35°to-89°C (-31°to-128°F)
Melting/Softening Point - Not applicable
Solubility in Water - soluble
Percent Volatile - 100
Evaporation Rate - 3.7 (carbon tetrachloride = 1)
Odor and Odor Threshold - Not available
pH - Not available
Specific Gravity- 1.15 @ 20°C (68°F) (water = 1)

SECTION 4 - FIRE AND EXPLOSION HAZARD

Auto-Ignition Temperature - 456°C (852°F)
Extinguishing Media - Water, foam, dry chemical.
Hazardous Combustion Products - Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene
Flammable Limits - Not available
Unusual Fire or Explosion Hazards - Addition of excess water (>9%) will form a flammable liquid
Flash Point - 49°C (120°F)
Special Fire Fighting Procedure - None

© Digital Equipment Corporation. 1992. All rights reserved.

SECTION 5 - REACTIVITY DATA

Stability - Stable
Conditions to Avoid - Decomposed by flame and red, hot surfaces
Hazardous Decomposition Products - Not available
Hazardous Polymerization -None
Incompatibility - Active metals, powdered aluminum, zinc, beryllium, calcium

SECTION 6 - HEALTH HAZARD DATA/TOXICOLOGICAL PROPERTIES

Hazard to Humans- (based on hazardous ingredients data) Exposure by inhalation and skin possible. Overexposure may cause irritation to the throat, nose and eyes, loss of manual dexterity and narcosis. Cardiac sensitization may occur.
Animal Experiment- (based on hazardous ingredients data)
Acute- Oral LD50- >5 g/kg (practically non-toxic); Dermal LD50- >20 g/kg; (practically non-toxic); Inhalation LC50- >20 mg/l (practically non-toxic). May cause moderate skin irritation and eye injury which may persist for several days. Cardiac sensitization and narcosis may occur at high doses.
Chronic/Other- (based on hazardous ingredients data) Data show that there are no mutagenic or reproductive effects. IARC concluded that evidence on carcinogenic potential is inadequate.
Additional Information- The ACGIH TLV for hazardous ingredients was established for eye, nose, throat irritation, cardiac sensitization and systemic effects.

SECTION 7 - EMERGENCY/FIRST AID PROCEDURE

If Inhaled - Remove to fresh air. Support breathing if necessary and contact a physician.
If on Skin - Promptly wash skin with soap and water. If irritation is present after washing, contact a physician.
If in Eyes - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
If Swallowed- Seek immediate medical attention.

SECTION 8 - SAFE HANDLING/PREVENTIVE MEASURES

Personal Protective Equipment - None
Engineer Control - None
Waste Disposal - No special requirements.
Procedures for Leaks or Spills- Use absorbent material. Ventilate area of spill/leak.
Work Practices - None
Storage Requirement- Keep container closed and in ventilated area below 46°C (115°F)
Handling Procedure/Equipment- Keep container closed and in cool, ventilated area. May attack some plastics, rubber and coating.
Labelling- US-Combustible Liquid; Irritant
WHMIS Classification- Class B Division 3-Combustible Liquid

SECTION 9 - TRANSPORTATION REQUIREMENTS

Proper Shipping Name- Flammable Liquid N.O.S. (contains isopropanol)(IATA/ICAO, IMO)
Hazard Class- Flammable liquid, 3 (IATA, ICAO), 3.3 (IMO)
Identification Number- UN 1993 (IATA/ICAO, IMO)
RQ- Not applicable Packing Group- III (IATA/ICAO, IMO)

MSDS SATISFIES OSHA AND WHMIS REQUIREMENTS